

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P834440

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-3STD-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834440
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-OPL-LD4-3STD-40-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

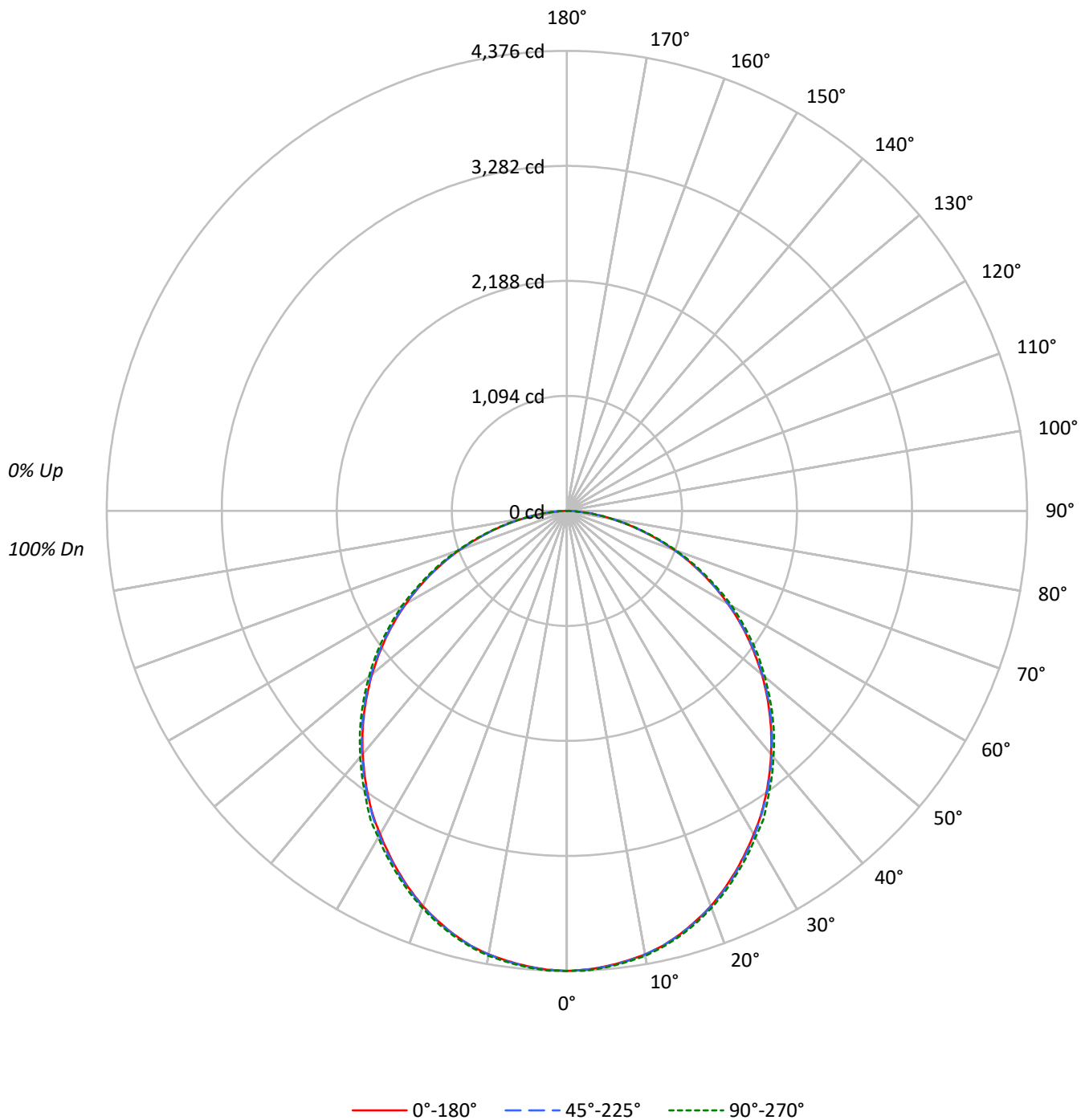
Lumens per Lamp: N/A
Luminaire Lumens: 11823.2 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11774	11774	11774
5°	11743	11753	11768
10°	11706	11708	11743
15°	11609	11617	11650
20°	11459	11472	11513
25°	11251	11278	11329
30°	11040	11077	11144
35°	10838	10865	10951
40°	10610	10645	10740
45°	10377	10422	10529
50°	10126	10171	10289
55°	9839	9886	10047
60°	9512	9551	9766
65°	9096	9125	9298
70°	8539	8546	8731
75°	7761	7732	7912
80°	6668	6640	6752
85°	5175	5091	5119

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.5	3.5
10°-20°	1176.1	9.9
20°-30°	1750.9	14.8
30°-40°	2070.6	17.5
40°-50°	2113.8	17.9
50°-60°	1886.5	16.0
60°-70°	1420.9	12.0
70°-80°	792.4	6.7
80°-90°	198.5	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3340.5	28.3
0°-40°	5411.1	45.8
0°-60°	9411.4	79.6
0°-90°	11823.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11823.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4376	4376	4376	4376	4376	
5°	4347	4356	4351	4352	4356	413
15°	4167	4172	4170	4174	4182	1175
25°	3789	3794	3798	3808	3816	1746
35°	3299	3296	3308	3320	3334	2063
45°	2727	2726	2739	2752	2767	2103
55°	2097	2094	2107	2122	2142	1875
65°	1429	1423	1433	1446	1460	1413
75°	746	740	744	747	761	791
85°	168	163	165	163	166	201
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4375.5	4375.5	4375.5	4375.5	4375.5
2.5°	4368.3	4375.5	4366.5	4368.3	4376.4
5°	4347.4	4355.6	4351.1	4352.0	4356.5
7.5°	4318.5	4329.3	4323.0	4324.8	4329.3
10°	4284.0	4292.2	4284.9	4289.5	4297.6
12.5°	4235.1	4238.7	4235.1	4236.9	4246.0
15°	4167.2	4171.7	4169.9	4173.5	4181.7
17.5°	4087.5	4092.9	4092.0	4099.2	4105.6
20°	4001.4	4002.3	4005.9	4013.2	4020.4
22.5°	3899.9	3902.6	3906.3	3916.2	3923.5
25°	3789.4	3793.9	3798.5	3808.4	3815.7
27.5°	3672.5	3677.1	3683.4	3694.3	3706.1
30°	3553.0	3553.0	3564.7	3575.6	3586.5
32.5°	3432.5	3428.0	3438.8	3452.4	3478.7
35°	3299.3	3295.7	3307.5	3320.2	3333.7
37.5°	3160.7	3158.0	3171.6	3185.2	3197.9
40°	3020.3	3016.7	3030.3	3043.8	3057.4
42.5°	2876.3	2874.4	2887.1	2900.7	2915.2
45°	2726.8	2725.9	2738.6	2752.1	2766.6
47.5°	2574.6	2572.8	2585.5	2600.0	2612.6
50°	2418.8	2417.0	2429.6	2444.1	2457.7
52.5°	2258.4	2258.4	2270.2	2282.9	2303.7
55°	2097.2	2094.5	2107.1	2121.6	2141.6
57.5°	1934.1	1930.5	1942.3	1956.8	1974.9
60°	1767.4	1763.8	1774.7	1789.2	1814.5
62.5°	1598.9	1593.5	1604.4	1618.0	1633.4
65°	1428.6	1423.2	1433.1	1445.8	1460.3
67.5°	1257.4	1251.1	1261.0	1271.9	1285.5
70°	1085.3	1078.9	1086.2	1097.1	1109.7
72.5°	914.1	907.7	914.1	918.6	934.0
75°	746.5	740.1	743.7	747.4	761.0
77.5°	583.4	577.1	584.3	586.1	594.3
80°	430.3	424.0	428.5	429.4	435.7
82.5°	290.8	285.4	291.7	287.2	292.6
85°	167.6	163.1	164.9	163.1	165.8
87.5°	66.1	62.5	63.4	59.8	59.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)